

What is claimed as the invention is:

1. In a light duty motor vehicle having a body attached to a floor and enclosing a protected volume, said vehicle further including at least one door, in addition to a  
5 door for a driver of the vehicle, to provide access to the protected volume, the improvement comprising:

a lift including a first telescoping member coupled to said vehicle within said protected volume;

a second telescoping member coupled to said first telescoping member; and  
10 a tool coupled to said second telescoping member;

wherein the tool is movable along two orthogonal axes of motion.

2. The vehicle as set forth in claim 1, wherein said lift is attached to the floor of the vehicle.  
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3. The vehicle as set forth in claim 1 wherein said tool is a platform adapted to receive a powered scooter.

4. The vehicle as set forth in claim 3 wherein said platform can be entered from  
20 at least two directions.

5. The vehicle as set forth in claim 3 wherein said platform can be entered from opposite directions.

25 6. The vehicle as set forth in claim 1 wherein said two axes of motion are defined by said first telescoping member and said second telescoping member.

7. The vehicle as set forth in claim 6 wherein one of said axes is horizontal.

30 8. The vehicle as set forth in claim 7 wherein the second of said two orthogonal axes is vertical.

9. The vehicle as set forth in claim 1 wherein said lift fits within said protected volume when both of said telescoping members are fully retracted.

10. The vehicle as set forth in claim 1 wherein at least one of said telescoping  
5 members includes at least two nested slides.

11. The vehicle as set forth in claim 10 wherein  
a first slide includes a first pair of rollers on one side thereof and a second pair  
of rollers on a side opposite the first side;  
10 the second of said two nested slides includes a pair of U-shaped channels on  
opposite sides thereof; and  
said channels enclose said rollers to provide said telescoping action.

12. The vehicle as set forth in claim 11 wherein  
15 said first slide includes a first block on one side thereof and a second block on a  
side opposite the first side;  
said channels enclose said blocks;  
said blocks are dimensioned to engage the bottom of the U in said U-shaped  
channels, whereby said blocks help stabilize the motion of said first slide.

20 13. The vehicle as set forth in claim 12 wherein said first block is located  
between said first pair of rollers and said second block is located between said  
second pair of rollers.

25 14. The vehicle as set forth in claim 10 wherein:  
a first slide includes a first block on one side thereof and a second block on a  
side opposite the first side;  
the second of said two nested slides includes a pair of opposed U-shaped  
channels on opposite sides thereof; and  
30 said channels enclose said blocks;  
said blocks are dimensioned to engage the bottom of the U in said U-shaped  
channels, whereby said blocks help stabilize the motion of said first slide.

15. The vehicle as set forth in claim 1 and further including:  
a first motor coupled to said first telescoping member for moving said member along a first axis of motion;  
5 a second motor coupled to said second telescoping member for moving said member along a second of said two orthogonal axes of motion;  
a control circuit including a first switch, said control circuit driving said motors in the correct direction and sequence for operation in said two axes of motion by actuation of said switch.
- 10 16. A lift for a light duty motor vehicle having a body attached to a floor, said lift comprising:  
a first telescoping member including a flange for attaching said lift to said vehicle without significant structural changes said vehicle;  
15 a second telescoping member coupled to said first telescoping member; and  
a tool coupled to said second telescoping member;  
wherein the tool is movable along two orthogonal axes of motion.
- 20 17. The lift as set forth in claim 16 wherein said tool is a platform adapted to receive a powered scooter.
18. The lift as set forth in claim 17 wherein said platform can be entered from opposite directions.
- 25 19. The lift as set forth in claim 16 wherein one of said axes is horizontal.
20. The lift as set forth in claim 19 wherein the second of said two orthogonal axes is vertical.
- 30 22. The lift as set forth in claim 16 wherein at least one of said telescoping members includes at least two nested slides.

23. The lift as set forth in claim 22 wherein  
a first slide includes a first pair of rollers on one side thereof and a second pair  
of rollers on a side opposite the first side;  
the second of said two nested slides includes a pair of U-shaped channels on  
5 opposite sides thereof; and  
said channels enclose said rollers to provide said telescoping action.

24. The lift as set forth in claim 23 wherein  
said first slide includes a first block on one side thereof and a second block on a  
10 side opposite the first side;  
said channels enclose said blocks;  
said blocks are dimensioned to engage the bottom of the U in said U-shaped  
channels, whereby said blocks help stabilize the motion of said first slide.

15 25. The lift as set forth in claim 24 wherein said first block is located between  
said first pair of rollers and said second block is located between said second pair of  
rollers.

26. The lift as set forth in claim 22 wherein:  
20 a first slide includes a first block on one side thereof and a second block on a  
side opposite the first side;  
the second of said two nested slides includes a pair of U-shaped channels on  
opposite sides thereof; and  
said channels enclose said blocks;  
25 said blocks are dimensioned to engage the bottom of the U in said U-shaped  
channels, whereby said blocks help stabilize the motion of said first slide.

27. The lift as set forth in claim 16 and further including:  
a first motor coupled to said first telescoping member for moving said member  
30 along a first axis of motion;  
a second motor coupled to said second telescoping member for moving said  
member along a second of said two orthogonal axes of motion;

a control circuit including a first switch, said control circuit driving said motors in the correct direction and sequence for operation in said two axes of motion by actuation of said switch.

- 5        28. The lift as set forth in claim 27 wherein said first switch is coupled to a microprocessor.